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(54) Title: IMPROVED METHOD FOR DIAGNOSING ACUTE CORONARY SYNDROME

(57) Abstract: This invention concerns a bioaffinity assay for quantitative determination in a sample of free PAPP-A, defined as the pregnancy associated plasma protein A (PAPP-A) that is not complexed to the proform of major basic protein (proMBP), wherein free PAPP-A is determined either i) as a calculated difference between measured total PAPP-A and measured PAPP-A complexed to proMBP, or ii) by a direct bioaffinity assay measuring only free PAPP-A. Furthermore, the invention concerns a method for diagnosing an acute coronary syndrome in a person by using as marker either free PAPP-A as such or a ratio free PAPP-A/total PAPP-A, free PAPP-A/PAPP-A complexed to proMBP, or PAPP-A complexed to proMBP/total PAPP-A.